

Antelope Valley Union High School District
AVHSD Fire Technology
Course Syllabus



- COURSE:** Fire Technology
- SCHEDULE:** Every Tuesday 1600 hours to 2030 hours
Six Thursdays 1600 hours to 2030 hours
- WHERE:** LACoFD North County Training Center
42110 6th Street West
Lancaster, CA 93536
- INSTRUCTORS:** Timothy Green, Training Captain
Layton Guggemos, Training Captain
Tony Leite, Training Captain
Darren Watters, Training Captain

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COURSE DESCRIPTION:

Fire Technology is a one-year course designed to develop students interested in a career in the field of emergency response. During 180 hours of instruction, this course will cover the history of the Fire Service, safety for fire fighters, and numerous operations necessary to defend life, property, and the environment.

This course is intended to prepare the student, both mentally and physically, to pursue a career in the Fire Service. The framework of this course is designed around skills students will be required to demonstrate in an actual Fire Fighter I entry-level fire academy. Passing this course does not automatically grant the student certification; however, it is intended to prepare the student for the certification process. Students should be prepared to participate in rigorous physical activity and expect to be exposed to a variety of physically and emotionally challenging situations. As a critical component of this curriculum, this class will adopt an increased level of classroom structure and individual discipline.

The California State Fire Fighter I training curriculum is used as a general guideline for this course, with discretion given to the instructor considering the availability of specialized equipment, size of the class, and student safety. IFSTA (International Fire Service Training Association) Essentials, 5th Edition is used as the primary textbook for the class. Other textbooks and reference material will be used in conjunction with IFSTA for specialized training in areas such as automobile extrication, ropes and knots, and wildland fire fighting.

This class by nature does present some risk of injury to students, therefore it is necessary that all students exercise good behavior and judgment at all times. ***Students failing to exercise good behavior or good judgment, and who pose a safety risk to themselves or other students will be removed from the class.*** During the duration of this course, the student will be exposed to Immediately Dangerous to Life and Health (IDLH) atmospheres. Observations of live fire training exercises will be performed in the LACoFD NCTC Burn Tower requiring the use of self-contained breathing apparatus (SCBA). All live burns will be conducted under the direct supervision of LACoFD Safety Officer Capt. Adamo. Each student will become proficient on the use of the SCBA as well as receive a face-fit certification on our breather prior to fire exposure.

This class is designed to function every Tuesday night over an entire school year. Along with the Tuesday sessions we will also host six Thursday night sessions. Attendance is critical to a student's success in this course. If a student is absent, it will be their responsibility to make up any missing work and/or assignments. Secondly, all absent students are required to turn in a "Credit for Absence Form" upon returning to class. Lectures, multimedia learning, and manipulative skill exercises are difficult to replicate so please do not miss often.

The field of Fire Fighting is an exciting and ever evolving profession. Fire Fighters are routinely confronted with the reality of life and death, property loss, and the health and safety of themselves as well as others. The skill set and general knowledge of individuals

wishing to pursue a career in the Fire Service is very diverse and needs to be practiced often to maintain proficiency. This course is designed to expose students to the knowledge, skills, and abilities needed for a career in the Fire Service.

REQUIREMENTS:

- Grade Level 11th or 12th
- Fully Cleared Sports Physical
- May be required to submit to an application and interview process

TEXT AND REFERENCE MATERIAL:

- IFSTA Essentials, 5th Edition, International Fire Service Training Association
- Principles of Vehicle Extrication, 3rd Edition, Int'l. Fire Service Training Assoc.
- Curriculum from the American Heart Association (AHA)
- Curriculum from the Federal Emergency Management Agency (FEMA)
- Curriculum from the National Wildfire Coordinating Group (NWCG)
- Curriculum from the Occupational Safety and Health Administration (OSHA)

COURSE CONTENT:

- History of the Fire Service
- Fire Fighter Safety
- Fire Fighter Personal Protective Equipment (PPE)
- Self-Contained Breathing Apparatus (SCBA)
- Ropes and Knots
- Water Supply
- Hose Lays
- Engine Operations
- Ground Ladders
- Live Fire Behavior
- Ventilation Operations
- Tactical Fire Fighting Operations
- Automobile Extrication
- Introduction to Incident Command Systems
- Basic Wildland Fire Operations
- First Responder Operations

CERTIFICATIONS:

Upon completion of this course successful students will possess the following:

- Certificate of Completion, AVUHSD, with a “B” grade or better
- College Articulation Credit, AVC FT-111, with a “C” grade or better
- CPR Certification, American Heart Association
- Face Fit Certification, Survivair Panther SCBA
- S-110 Basic Wildland Fire Orientation, NWCG
- S-190 Introduction to Wildland Behavior, NWCG
- ICS-100 Introduction to the Incident Command System, FEMA
- Haz-Mat First Responder Awareness (FRA), OSHA

CLASS PARTICIPATION:

Class participation is required from all students and will be a part of their final grade. Each student will be required to perform various manipulative skills, may present short oral presentations, lead small groups, and interact with other students in a respectful and responsible manner. The higher the level of class participation, the better the learning environment there will be for everyone.

FOOD IN CLASS:

All students are required to bring water to every class session. Secondly, students are encouraged to bring small snacks to eat during a break in the middle of class sessions, as we will be training for nearly five hours in the late afternoon.

STUDENT PARKING:

Students are required to park in designated student parking areas only. The designated student parking area is located directly **across** the street from the NCTC and LACoFD FS 129. All students are to line up on the sidewalk in front of the dirt lot **next** to LACoFD FS 129.

HOMEWORK:

Specific homework assignments will be given for each chapter covered within the text. Secondly, other work will be assigned throughout the year to correspond with certain aspects of the Fire Service. All homework must include your name, date, and cadet class. Homework is a significant element of this class. It is in the best interest of the student to have all assignments turned in completed, legible, and in a timely manner. Late homework will be accepted but may be subject to a late penalty.

GRADING:

Student progress can be viewed on Power School; it will be updated every three weeks.
50% of the student's grade is based upon theory assignments
50% of the student's grade is based upon laboratory assignments
Student grades will be based upon percentages (100-90 A, 89-80 B, etc.)

QUIZZES:

Quizzes will be given for each chapter covered in the text. They may also be based on class lecture, discussion, reading assignments, presentations, or multi-media viewed by the class. Quizzes will be typically administered through the class Moodle website.

TESTS:

Tests will be given for each section of the text covered. Tests may be comprised of multiple choice questions, True/False, fill in, short answer, essay, or a manipulative / practical exam. All tests will be given in class. It will be the student's responsibility to schedule a time with the instructor to take a test due to an absence. As a general guideline, a student is to make up the test on the next class session after he/she was absent. After that time period has passed a grade of '0' may be recorded in the grade book.

RESEARCH PROJECT:

The completion of a research project may be required throughout the duration of this class. Topics may include specific portions of the text, guest speakers, current events, or specifically assigned areas of interest affecting the Fire Service. When a term paper is assigned, students will receive specific instructions as to the layout, design, content, font, sources, and length. It is critical students pay special attention to these instructions, and learn to follow detailed step-by-step instructions common to the fire service.

CLASS START / END TIMES:

Students are expected to be present in class and ready to learn at the start time. At the discretion of the instructor, students may be released early in order to allow for safe travel to their home. Safe student travel is the priority, and weather factors will be considered. Habitual tardiness will not be tolerated.

The official start and end time of this class is as follows:

- Every Tuesday 1600 hours to 2030 hours
- Six Thursdays 1600 hours to 2030 hours

ATTENDANCE:

It is critical that absences be kept to an absolute minimum in order to receive all of the information needed to be successful in this class. If a student misses a class, they are to check with their crew leader or the instructor to determine what was missed. It is the student's responsibility to take the initiative to make-up and complete all assigned work, tests, quizzes, etc.

ABSENCES:

All student absences excused or unexcused, will require the submission of a "Credit for Absence Form" submitted to the lead instructor prior to returning to full duty in class. This form requires the student to submit an explanation as to why the student was absent. Secondly, the student and a parent or guardian must sign the form to verify the absence. Lastly, the lead instructor will sign and submit the form for approval. A blank "Credit for Absence Form" will be given to all students for their notebook and will also be available online.

TARDINESS:

Continual and habitual tardiness will result in a mandatory loss of participation points and will be recorded appropriately on the daily attendance. It is recognized however that students have to travel from their high school campus locations to attend this course, so reasonable allowances will be made for bad weather and extenuating circumstances. A student's safe travel to and from this class is always the priority. Students are required to contact the instructor if they are going to be late / tardy / etc.

UNIFORM, PERSONAL GROOMING, AND APPEARANCE STANDARDS:

The mission of the AVHSD Fire Technology uniform and personal grooming standard is to always present our program to the community in a professional manner. Our uniform and the quality of dress are a direct reflection of our attitude and professionalism. Specifics concerning uniform and grooming will be provided in a separate document.

ELECTRONIC DEVICE POLICY:

Students are not allowed to use any electronic devices during class, unless they are specifically being used for a class activity. No electronic devices of any kind are allowed during manipulative exercises. Students breaking this policy may result in a referral and a call home to their parent or guardian.

FIELD TRIPS:

Class field trips will be pursued throughout the year. Students will be responsible for collecting all necessary signed documentation before they are allowed to attend. Students failing to do so will not be allowed to participate in the field trip.

ASSIGNED FIRE FIGHTING GEAR:

Students in this class will be assigned a set of firefighting gear referred to as turn-outs. They will not be allowed to take this gear home unless permission is given by the instructor for practice or cleaning / washing, etc. Each student will be provided a space to store their assigned turn-out gear when they are not in use. Students losing their assigned gear will be responsible for providing a replacement before completing the class.

NOTEBOOKS:

Students will be required to maintain a notebook throughout the school year. These notebooks will be graded for completeness and organization. The purpose of an individualized notebook is to provide the student with a solid study document, to serve as a cornerstone for a strong personal reference library, and to provide the student with a means of referencing information they may have questions about. Student notebooks shall contain all the materials that are distributed during class.

A student notebook must meet the following criteria:

- 1.5-inch Navy Blue 3-ring View Binder
- 5 tab divider
- Pen/pencil pouch
- 2 each black, blue, red ink pen
- 2 number two pencils, sharpened
- 100 sheets of college rule paper

The notebook will be divided into sections using the section dividers with the plastic tabs (Homework, Notes, Hand Outs, Tests/Quizzes, Projects). The title of each section covered in class will be printed on the inserts, which come with the section dividers and will be inserted into the plastic tabs. A student's individual "Scratch Notes" are acceptable to be included in their notebook.

USE OF APPARATUS AND EQUIPMENT:

This program is fortunate to have a great relationship with the LACoFD. Included with that relationship is the use of reserve fire apparatus. Students are not allowed to drive any apparatus. At the instructor's discretion, some students may be asked to operate the fire pump portion of the apparatus. While using any of the apparatus and/or equipment involved in this course, students must strictly follow instructions and stated procedures at all times. Misuse of these items or not following directions could result in serious injury

to themselves or other students in the class. Horseplay of any kind will not be tolerated and will be grounds for dismissal from the course.

COMMUNITY SERVICE:

This course offers students the opportunity to serve the community in many ways. On numerous occasions, you may be asked to share your talents and abilities with members of the local public. Events may include:

- Annual LACoFD Fire Service Day
- Hands-Only CPR Training to Middle School Students
- Disaster Preparedness Training to Middle School Students
- Fundraiser for Local Charities

MOODLE CLASS SITE:

This course is hosted on the high school district's Moodle page. All students must create a Moodle account using their high school district Google email account. It can be found at the following link: <http://moodle.avhsd.org/>

Look for **Fire Tech** under the **Industrial Technology** category. Coursework will consist of reading assignments, videos, class discussions, quizzes, as well as group research projects. All students are encouraged to complete assignments on time. A late penalty may be enforced if necessary. Any missed work must be made up within 1 week of original date.

COMMUNICATING WITH THE INSTRUCTOR:

Remind: All students are required to sign up for direct messaging using the Remind App. Text this message: **@firet** to this number: **81010** to join

Phone: Students as well as parents and guardians can contact the instructor via cell phone at (661) 713-1772. No calls later than 9 PM please, excluding emergencies.

Texting: Students are allowed to text Mr. Green on topics related to this class given the following guidelines:

- No pictures of any kind
- No jokes of any kind
- No links of any kind
- Students must include their name
- No later than 9 PM (excluding emergencies)

Email:

Students as well as parents and guardians can contact the instructor at: tgreen@avhsd.org

Acknowledgement Form:

**STUDENTS ARE RESPONSIBLE FOR RETURNING THIS FORM:
(THIS IS CONSIDERED A CLASS ASSIGNMENT)**

Parents & Guardians,

Please don't hesitate to call or email me with any questions or concerns. Thank you in advance for all your help and support throughout the school year.

Capt. Green

Students and Guardians:

I have read the entire syllabus for Capt. Green's Fire Technology class held at LACoFD North County Training Center. I understand that my good judgment and behavior will be required at all times in order to maintain a safe learning environment. By signing below, I agree to follow the rules, policies and procedures of the Antelope Valley Union High School District and those outlined in this class syllabus.

Student Name: _____ Date: _____

Student Signature: _____

Student Cell Phone: _____

Guardian Name: _____ Date: _____

Guardian Signature: _____

Guardian Cell Phone: _____

Non-Discrimination Statement: AVUHSD is committed to equal opportunity for all individuals in education. District programs and activities shall be free from discrimination based on sex, race, color, religion, national origin, lack of English skills, ethnic group, marital or parental status, physical or mental handicap or any other unlawful consideration. The district shall promote programs that ensure these discriminatory practices are eliminated in all district activities. The lack of English shall not be a barrier to admission and participation in district programs. [EC Section 56501]. There are certain rights under the law, including Title VI of the Civil Rights Act of 1974, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the individuals with Disabilities Act. The California Department of Education, and the US Department of Education Office for Civil Rights have the authority to enforce these laws and all programs and activities, which receive Federal funds [EC Sec. 260].

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